

Title (en)

FUEL INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE WITH A COMMON RAIL

Title (de)

KRAFTSTOFFEINSPRITZSYSTEM FÜR EINEN VERBRENNUNGSMOTOR MIT EINER COMMON-RAIL-SCHIENE

Title (fr)

SYSTEME D'INJECTION DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE A SYSTEME D'INJECTION PAR ACCUMULATION DE PRESSION

Publication

**EP 0975869 A1 20000202 (DE)**

Application

**EP 98920531 A 19980416**

Priority

- DE 19716513 A 19970419
- EP 9802228 W 19980416

Abstract (en)

[origin: DE19716513A1] The invention relates to a fuel injection system for an internal combustion engine, specially a diesel engine, comprising a crankcase (1) and cylinder heads. Said system is provided with injectors (36) to inject fuel into the combustion chambers of the internal combustion engine and a high pressure pump which supplies fuel to a common rail (3) supplying fuel to the injectors (36) via high pressure lines (5 and 7). According to the invention, the common rail (3) is lodged in or on the walls of the crankcase (1). This arrangement of the common rail track (3) and preferably also that of the fuel injectors (36) and the high pressure lines (5 and 7) in the housing of the internal combustion engine optimally protects the fuel injection system from external influence and damages while at the same time hermetically closing it from the outside by forming an internal leakage chamber (11).

IPC 1-7

**F02M 55/02**; **F02M 55/00**; **F02F 7/00**

IPC 8 full level

**F02F 7/00** (2006.01); **F02M 55/00** (2006.01); **F02M 55/02** (2006.01)

CPC (source: EP US)

**F02M 55/02** (2013.01 - EP US); **F02M 55/025** (2013.01 - EP US); **F02M 2200/185** (2013.01 - EP US)

Citation (search report)

See references of WO 9848165A1

Cited by

US8844500B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 19716513 A1 19981105**; **DE 19716513 C2 19990211**; DE 59803340 D1 20020418; EP 0975869 A1 20000202; EP 0975869 B1 20020313; US 6237569 B1 20010529; WO 9848165 A1 19981029

DOCDB simple family (application)

**DE 19716513 A 19970419**; DE 59803340 T 19980416; EP 9802228 W 19980416; EP 98920531 A 19980416; US 40334100 A 20000121